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CARTOGRAPHIC EVALUATION OF ERTS ORBIT
AND ATTITUDE DATA

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ERTS ORBIT AND ATTITUDE DATA Progress
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Type I Progress Report
ERTS 1

- a. Title: Cartographic Evaluation of ERTS Orbit and Attitude Data
ERTS-A Proposal No.: SR 150
- b. GSFC ID No. of P.I.: IN043
- c. Problems:
 - 1. The investigation is based on RBV images; with the RBV system still turned off, there are inadequate images for analysis.
- d. Accomplishments:
 - 1. Several RBV and MSS frames have been measured using ground control points. The distortion pattern of the RBV is remaining predictably small but the MSS is somewhat erratic and about 3 to 4 times as large (100 meters or less for the RBV to over 300 meters for the MSS.)
 - 2. A computer listing of spacecraft attitude data for one pass has been obtained.
- e. Significant scientific results:
 - 1. RBV system corrected (bulk) images have been precisely enlarged and rectified to control at a scale of 1:500,000. The results closely approach National Map Accuracy Standards.
 - 2. A MSS Scene Corrected (precision) image has been prepared and printed by color lithography. This Lake Tahoe Area scene is the first cartographic product from ERTS that was available for economical distribution to the public in large numbers.

- f. Published articles and reports: ~~NN~~None
- g. Recommended changes in operations:
 - 1. Some selected first generation images should be provided for measurement to determine any advantage over later generations.
- h. Changes in Standing Order Forms: None
- i. ERTS Image Descriptor Forms: None
- j. Changes in Data Request Forms: None
- k. DCP Status: N/A